Installation Guide

COREPLAYER

- CorePlayer installation

WORKSWELL

General system requirements

Minimal requirements

Processor:	Intel Core 2 Duo or equivalent
Memory (RAM):	1 GB
HDD:	At least 100 MB available hard disk space.
NIC:	1000 Mb/s, Jumbo frame 9kb.
OS:	Windows 7

Recommended configuration

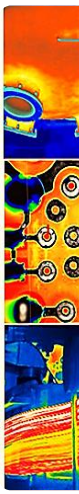
Processor:	Intel Core i3
Memory (RAM):	4 GB
HDD:	1 GB available hard disk space
NIC:	Gigabit Ethernet adapter and also a Gigabit Ethernet switch could be used for connecting more devices

In order to acquire images from a GigE Vision camera, you need to first make sure that you have all the correct hardware components and proper configuration. Below is a list of requirements.

Special hardware requirements

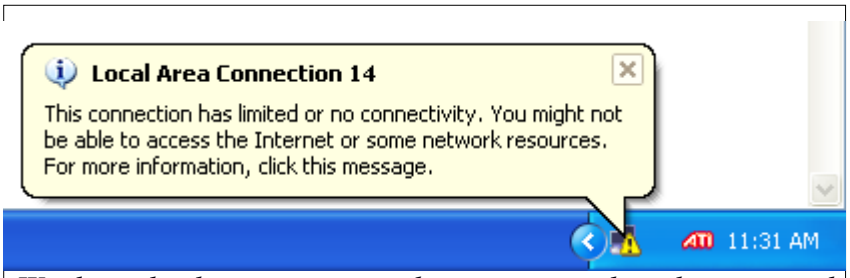
GigE Vision camera: The camera must be GigE Vision standard compliant. If you have a camera that has a Gigabit Ethernet port but is not GigE Vision compliant, you cannot acquire images using CorePlayer. You should find the GigE Vision logo in the camera's user manual or marketing literature.

Gigabit Ethernet port: While it is possible to acquire images with Ethernet and Fast Ethernet ports, which support 10 MB/s and 100 MB/s respectively, this will only work at very slow frame rates and small resolutions. It is highly recommended that you use a Gigabit Ethernet Network Interface Controller (NIC).



Network configuration

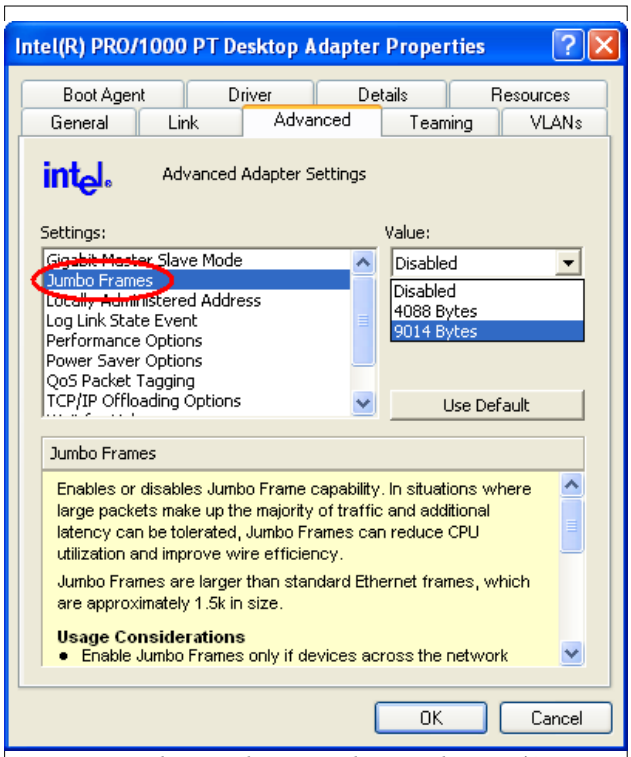
Once you have the hardware and software installed correctly, you must configure the network as well. GigE Vision cameras can obtain an IP address from a DHCP server or select one for itself using Link Local Addressing (LLA). If you connect the camera to a Gigabit Ethernet network with a DHCP server, the camera is automatically detected. If the camera is connected directly to the computer (using either a regular or cross-over cable), maybe you will need to wait about a minute for the camera to timeout on the DHCP request and use LLA. The Windows operating system may display a warning that the network card has only limited operation. You can ignore this warning.


Local Area Connection 14
This connection has limited or no connectivity. You might not be able to access the Internet or some network resources.
For more information, click this message.
11:31 AM

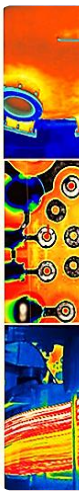
Windows displays a warning when camera is directly connected

Jumbo packets

Typically, network drivers will split any data larger than 1500 bytes into multiple packets. However, the GigE Vision standard allows packet sizes of up to 9014 bytes. These large packets, also known as Jumbo packets, allow the camera to more efficiently transfer data across the network. You can enable Jumbo packets in many network cards from the Device Manager by right-clicking the network card and selecting Properties.



Setting Jumbo packets on the Intel PRO/1000 Adapter



Network Firewalls

When a camera acquires an image, it immediately streams those data packets to the host. However, network firewalls will not allow the packets to reach their destination because firewalls typically block uninitiated incoming traffic. Therefore you will need to disable you firewall in order to acquire images from a GigE Vision camera. You can disable the Windows Firewall from the Control Panel (Start>>Control Panel). However if you have a network card with an Intel PRO/1000 chipset and you are using the Filter driver that comes with CorePlayer, it is most likely that you will not need disable the firewall.

Notifications and difficulties

Jumbo Packets: If your NIC device, or any intermediate network hardware (switch, router, etc.), does not support Jumbo packets, you will be limited to a packet size of less than 1500 Bytes. The GigE Vision packet size cannot be greater than the maximum packet size allowed by the NIC.

Firewalls: Many corporate networks employ firewalls for network security. However, you cannot acquire from GigE Vision cameras with the firewall enabled, unless you use the High Performance driver.

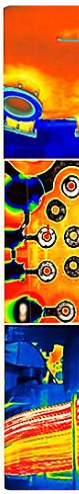
If your company's network policy does not allow you to disable the firewall or use a different network driver, you will need to use a system dedicated to image acquisition, that is not part of the corporate network.

Corrupt XML files: As with any new standard, camera manufacturing companies routinely release new revision of their firmware. If you get an error stating that the XML file is corrupt, please contact the camera manufacturer for the latest revision of their firmware.

Interoperability: While GenICam gives camera manufacturers the flexibility of creating a custom attribute set, it makes it difficult to easily switch between cameras without modifying your code. While the GenICam Standard Features Naming Convention alleviates this problem to a certain extent, most of the conventions are only recommendations and not requirements. So a camera manufacturer may deviate from the convention, in which case, the application software will need to be modified to be interoperable with other

eBUS installation: While is shown information windows mentioned below, there is problem with old version of eBUS SDK. For this case you need to remove older version of your eBUS SDK, restart PC and launch ThermoConnetor installation again.

System Update Required
Unable to install or run the application. The application requires that assembly PvDotNet Version 4.0.4.3086 be installed in the Global Assembly Cache (GAC) first.
More information on this system update can be found by visiting the site here.
OK



Installing CorePlayer

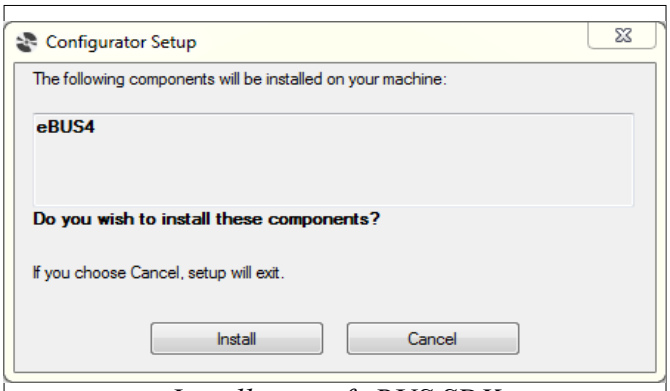
To get your copy of Workswell CorePlayer, go to page www.workswell.cz/CorePlayer.

eBusChecker

First you need to have installed eBus4 SDK-64bit. If you don´t know, which version of this library you have installed, you can check it throught the **eBusChecker**. Download it by clicking on **eBUSChecker** and then open file eBUSChecker.exe. If you have already correct version of eBus on your computer, you can continue by clicking on **launch**. Otherwise, click the button **Install** to install the prerequisites and run the application.

Setup

After clicking on Install, the **setup.exe** file will be downloaded. Then proceed to the folder where you've downloaded the setup program and open it. If you see a prompt asking whether to install eBUS SDK or not, click on **Install**, otherwise the setup program would quit.

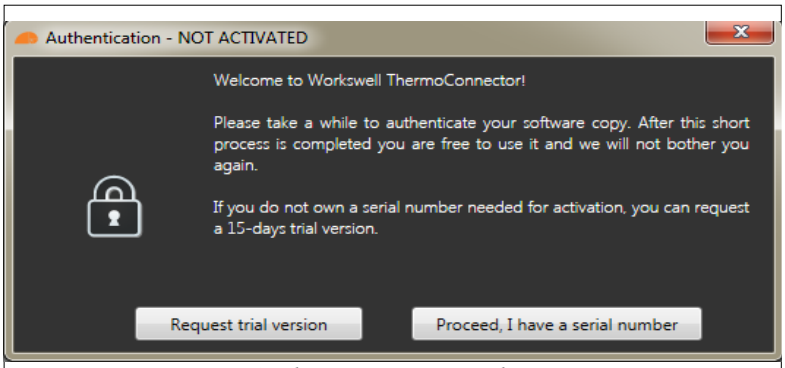

Configurator Setup
The following components will be installed on your machine:
eBUS4
Do you wish to install these components?
If you choose Cancel, setup will exit.
Install
Cancel

Installation of eBUS SDK

Follow the instructions of the eBUS SDK Setup program and in the end, if asked, reboot your computer. The installation will then continue. If not, please run the setup program again. CorePlayer's setup program itself doesn't need any further user interaction and the service application will run immediately as soon as the installation is completed.

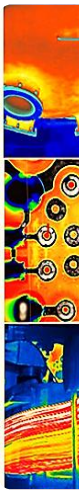
Activation

When you run the program for the very first time, the Authentication window is the first thing to deal with. The Authentication window provides you with two options: If you don't have a serial number and want to


Authentication - NOT ACTIVATED
Welcome to Workswell ThermoConnector!
Please take a while to authenticate your software copy. After this short process is completed you are free to use it and we will not bother you again.
If you do not own a serial number needed for activation, you can request a 15-days trial version.
Request trial version
Proceed, I have a serial number

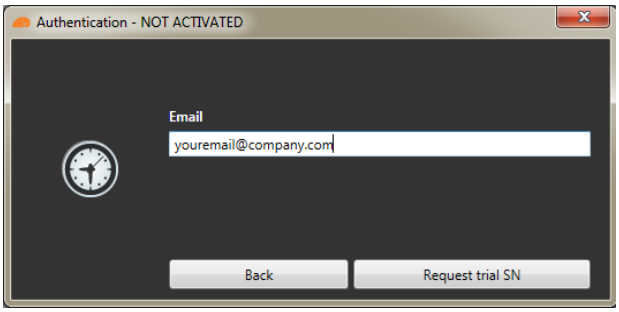
Authentication window

evaluate the software for a limited period of 15 days, choose **Request trial version**, otherwise, if you have valid, not yet activated serial number, click the **Proceed, I have a serial number** option.



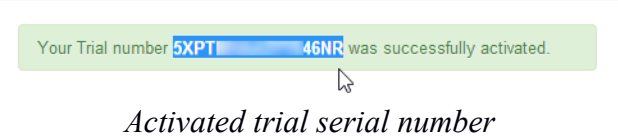
Trial version

When requesting a trial version of Workswell CorePlayer, all you have to do is enter your (valid) email address.



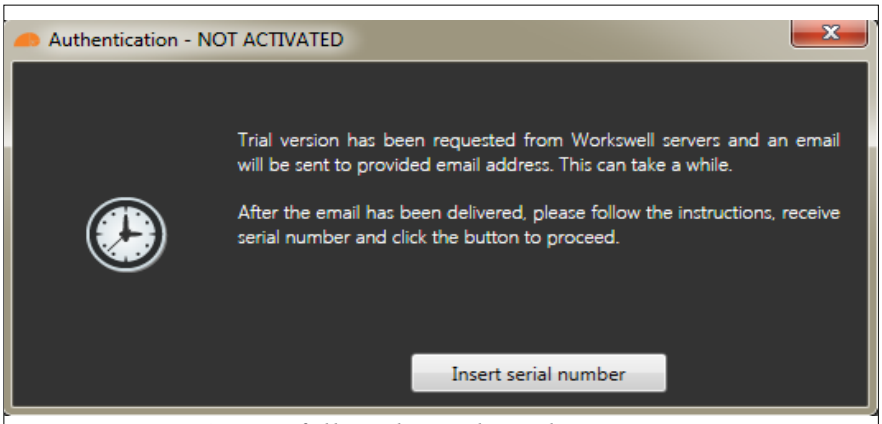
Entering email address

In a matter of seconds, you will receive an email with activation link leading to Workswell Activation Server, where we would be glad if you took a moment to fill in a brief info about yourself and helped us to improve the software to better suit the needs of our customers. After you'll express consent with the Licensing terms and agree to the above terms, click **Activate** and you will be given a unique trial serial number, valid for 15 days.



Activated trial serial number

Copy the number. Then return to the program and click **Insert serial number.**

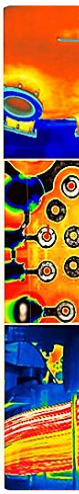

Authentication - NOT ACTIVATED
Trial version has been requested from Workswell servers and an email will be sent to provided email address. This can take a while.
After the email has been delivered, please follow the instructions, receive serial number and click the button to proceed.
Insert serial number

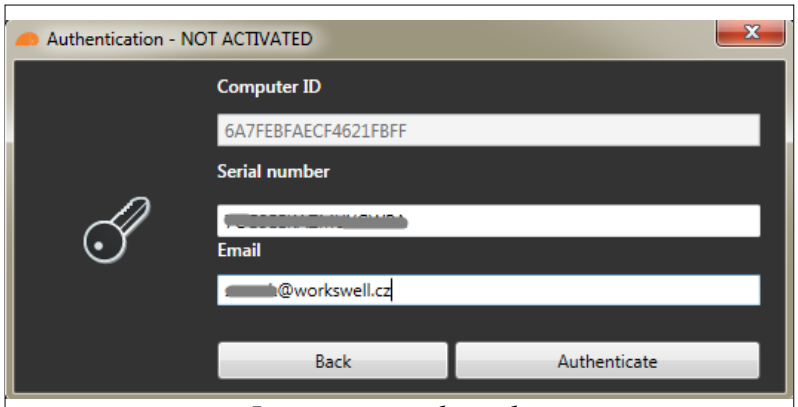
Successfull trial serial number request

Further steps are the same as if you had a licensed copy of Workswell CorePlayer, and are described in next section.

Full version

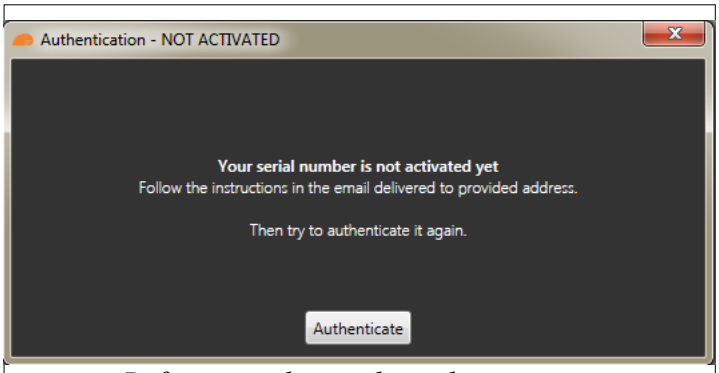
If you have a full version of the program (or you already have activated trial serial number), start the activation process by clicking on **Proceed, I have a serial number** button. On the next screen, enter your serial number provided by your sales partner or by Workswell and fill in your valid email address. Click the **Authenticate** button.





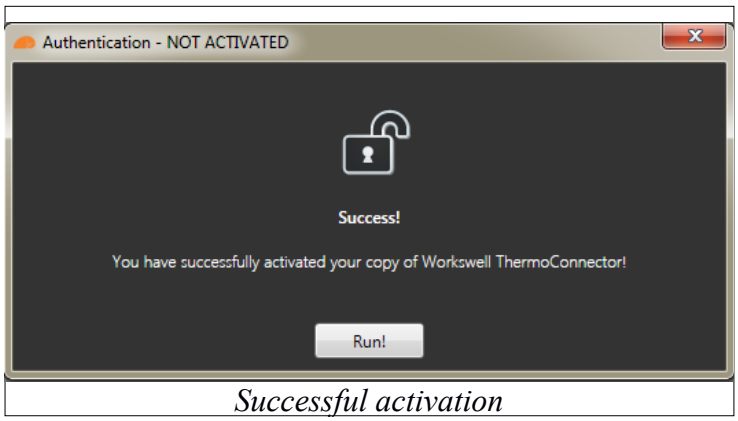
Inserting serial number

Next steps apply for full versions only The Authentication window is now indicating that your serial number is not yet activated. Never mind, everything has been taken care of.


Authentication - NOT ACTIVATED
Your serial number is not activated yet
Follow the instructions in the email delivered to provided address.
Then try to authenticate it again.
Authenticate

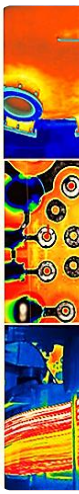
Before completing the web activation

By clicking **Authenticate** on the previous screen, you've send an activation request to Workswell Activation Server and as a response, you will receive email with activation link. Click it and fill in a brief info about yourself. After you'll express consent with the Licensing terms and conditions by checking the "**I agree**" to the above terms, click **Activate** and return to the program. Click **Authenticate** as seen on the image above.



Successful activation

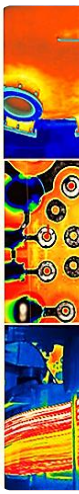
Click **Run!** and you are free to use Workswell CorePlayer.



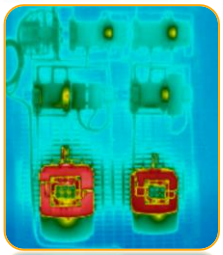
Supported Cameras

CorePlayer was designed especially for Workswell WIC cameras, but there is basic support for other types.

- **Workswell WIC**
  - **Fully supported** and tested.
  - Configurable device setup with intuitive graphic user interface.
  - Temperature calculation.
- **Flir Ax5 & Ax15**
  - **Fully supported** and tested
  - Configurable device setup with intuitive graphic user interface.
  - Temperature calculation.



Contacts



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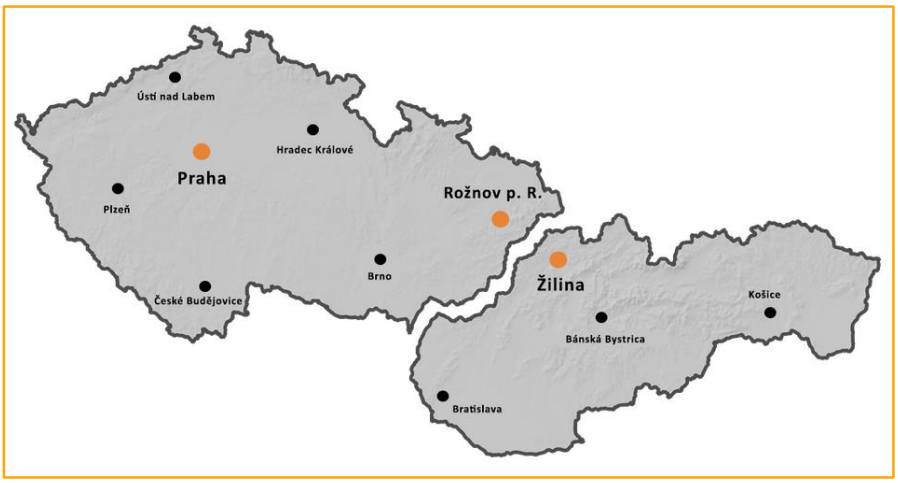

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